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This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) A method providing long term pain management, the

method comprising the steps of:

surgically implanting a catheter to create an infusion site, wherein a discharge portion of

the catheter lies in a peripheral neural structure;

surgically implanting an implantable pump and reservoir in subcutaneous tissue, wherein

a proximal end of the catheter, and the reservoir, are in communication with the pump, whereby

the pump and catheter are entirely subcutaneously located; and

operating the pump to deliver a predetermined dosage of medication through the

discharge portion of the catheter into the infusion site, whereby pain management is provided.

2. (Original) The method of claim 1, wherein the neural structure is a brachial

plexus nerve complex.

3. (Original) The method of claim 2, wherein the catheter is implanted using an

axillary approach.

4. (Original) The method of claim 2, wherein the catheter is implanted using a

subclavian, interscalene or infraclavicular approach.

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5. (Original) The method of claim 2, wherein implanting the catheter comprises the

steps of:

placing a bore needle in communication with a grounding wire of a nerve stimulator;

inserting the bore needle within a facial sheath of the brachial plexus;

stimulating the bore needle to verify adequate placement within the facial sheath;

inserting an arterial line wire through the bore needle;

stimulating the arterial line to verify arterial line location adjacent to the brachial plexus;

and

advancing the catheter over the arterial line and removing the arterial line.

6. (Original) The method of claim 5, wherein implanting the pump and reservoir

further comprises the steps of:

making a first incision in skin and subcutaneous tissue at an arterial line skin penetration

location;

making a second incision, creating a subcutaneous pocket, and inserting the pump into

the pocket;

creating a subcutaneous tunnel between the pocket and the first incision; and

threading the catheter through the subcutaneous tunnel to the pocket and attaching the

catheter to the pump.

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7. (Original) The method of claim 5, wherein the bore needle has a conductive

protrusion located at a base thereof and extending therefrom to create an angle therebetween to

facilitate attachment to the grounding wire of the nerve stimulator.

8. (Original) The method of claim 1, wherein the neural structure is a gasserian

ganglion, a nasociliary nerve, a long ciliary nerve, an anterior ethmoidal nerve, a subraorbital

nerve, a supratrochlear nerve, a maxillary nerve, an infraorbital nerve, a sphenopalantine nerve, a

mandibular nerve, an inferior alveolar nerve, a lingual nerve, an auriculotemporal nerve, a

masseter nerve or a mental nerve.

9. (Original) The method of claim 1, wherein the neural structure is a cervical

plexus, a greater occipital nerve, a lesser occipital nerve, a greater auricular nerve, a stellate

ganglion or a glassopharyngeal nerve.

10. (Original) The method of claim 1, wherein the neural structure is a brachial

plexus with the catheter implanted using an interscalene approach, a brachial plexus with the

catheter implanted using a supraclavicular approach, a brachial plexus with the catheter

implanted using an infraclavicular approach, a brachial plexus with the catheter implanted using

an axillary approach, a radial nerve, a median nerve, an ulnar nerve or a digital nerve.

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11. (Original) The method of claim 1, wherein the neural structure is a splanchnic

nerve, a thoracic sympathetic ganglion or an intercostal nerve.

12. (Original) The method of claim 1, wherein the neural structure is a lumbar

sympathetic ganglion, a celiac plexus, an ilioinguinal nerve, an iliohypogastric nerve or a

genitofemoral nerve.

13. (Original) The method of claim 1, wherein the neural structure is a sciatic nerve,

a femoral nerve, a lateral femoral cutaneous nerve, an obturator nerve, a common peroneal nerve,

a saphanous nerve, a tibial nerve, a deep peroneal nerve, a superficial peroneal nerve, a

superficial saphaneous nerve or a superficial sural nerve.

14. (Original) The method of claim 1, wherein the catheter is lined with a metal strip

conducive to electrical conduction.

15. (Original) The method of claim 14, wherein the metal strip is stimulated to verify

adequate catheter placement adjacent to the neural structure.

16. (Original) The method of claim 1, wherein the medication is selected from the

group consisting of bupivacaine, tetracaine and lidocaine.

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17. (Previously Presented) The method of claim 1, wherein the medication is selected

from the group consisting of antispasmodics and alpha 2 agonists.

18. (Original) The method of claim 1, wherein the neural structure is in a thoracic

region.

19. (Original) The method of claim 1, wherein the neural structure is an intercostal,

interpleural, or paravertebral nerve complex.

20. (Original) The method of claim 19, wherein implanting the catheter comprises

the steps of:

inserting a bore needle into skin and contacting a transverse process;

walking the bore needle cephalad off a superior boarder of the transverse process;

inserting the bore needle through a superior costotransverse ligament and into the

paravertebral space; and

advancing the catheter through the bore needle and into the paravertebral space.

21. (Original) The method of claim 1, wherein the neural structure is peripheral to a

central nervous system.

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22-29. (Canceled)

30. (Previously Presented) The method of claim 1, wherein the catheter is implanted

using a needle, the needle comprising:

an electrically conductive shaft having a first end adapted to enter a facial sheath of a

neural structure, a second end, wherein the shaft has an interior channel running longitudinally

therethrough; and

an electrically conductive protrusion extending from the shaft to create a corner

therebetween, the protrusion facilitating connection of the needle to a nerve stimulator.

31. (Previously Presented) The method of claim 30, wherein the protrusion of the

needle is adapted to be operatively connected to a clip located at a distal end of a grounding wire

of a nerve stimulator.

32. (Previously Presented) The method of claim 1, wherein the delivering of

medication to the peripheral neural structure is long term, occurring for at least one week.

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33. (Previously Presented) The method of claim 1, wherein the method is directed to

chronic pain management, the catheter, pump and reservoir remaining implanted, and the

medication delivered to the infusion site, for weeks, months or years.

34. (Previously Presented) The method of claim 1, wherein the predetermined dosage

of medication is approximately between 10-25 mg/day of tetracaine, approximately between 50-

100 mcg/day of clonidine, and approximately between 50-100 mcg/day of baclofen.

35. (Previously Presented) The method of claim 1, wherein the medication is an

antispasmodic or an alpha 2 agonist; the neural structure is peripheral to the central nervous

system; and the delivering of medication is long term, occurring for at least one week.

36. (Previously Presented) The method of claim 1, where the catheter has an

embedded and electrically conductive material throughout the catheter length sufficient to enable

electrical conduction, the material facilitating stimulation to verify a catheter distal end location

adjacent to the neural structure.

37. (Currently Amended) A method providing long term pain management, the

method comprising the steps of:

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surgically implanting a catheter to create an infusion site, wherein a discharge portion of the catheter lies in a peripheral neural structure;

surgically implanting an implantable pump and reservoir in subcutaneous tissue, wherein

a proximal end of the catheter, and the reservoir, are in communication with the pump, and

wherein the catheter, pump and reservoir are capable of remaining implanted for weeks, months

or years, whereby the pump and catheter are entirely subcutaneously located; and

operating the pump to deliver a predetermined dosage of medication through the

discharge portion of the catheter into the infusion site, whereby chronic pain management is

provided.

38. (Currently Amended) A method providing long term pain management, the method

comprising the steps of:

surgically implanting a catheter to create an infusion site, wherein a discharge portion of

the catheter lies in a peripheral neural structure;

surgically implanting an implantable pump and reservoir in subcutaneous tissue, wherein

a proximal end of the catheter, and the reservoir, are in communication with the pump; and

operating the pump to deliver a predetermined dosage of medication selected from the

group consisting essentially of opiods, antispasmodics, and alpha 2 agonists, for a period

exceeding one week, through the discharge portion of the catheter into the infusion site, whereby

long term, chronic pain management is provided.

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39. (New) A method providing long term pain management, the method comprising the

steps of:

surgically implanting a catheter to create an infusion site, wherein a discharge portion of

the catheter lies in a peripheral neural structure;

surgically implanting an implantable pump and reservoir in subcutaneous tissue, wherein

a proximal end of the catheter, and the reservoir, are in communication with the pump; and

operating the pump to deliver a predetermined dosage of medicament comprising a

therapeutic agent selected from the group consisting of opiods, antispasmodics, and alpha 2

agonists, for a period exceeding one week, through the discharge portion of the catheter into the

infusion site, whereby long term, chronic pain management is provided.

40. (New) The method of claim 39, wherein the medicament further comprises a peripheral

nerve analgesic.

41. (New) The method of claim 40, wherein the peripheral nerve analgesic is one selected

from the group consisting of bupivacaine, tetracaine and lidocaine.

42. (New) A method providing long term pain management, the method comprising the

steps of:

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surgically implanting a catheter to create an infusion site, wherein a discharge portion of

the catheter lies in a peripheral neural structure;

surgically implanting an implantable pump and reservoir in subcutaneous tissue, wherein

a proximal end of the catheter, and the reservoir, are in communication with the pump; and

operating the pump to deliver a predetermined dosage of medicament comprising a

therapeutic agent selected from the group consisting of opiods and alpha 2 agonists, for a period

exceeding one week, through the discharge portion of the catheter into the infusion site, whereby

long term, chronic pain management is provided.

(New) The method of claim 42, wherein the medicament further comprises 43.

antispasmodics.

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